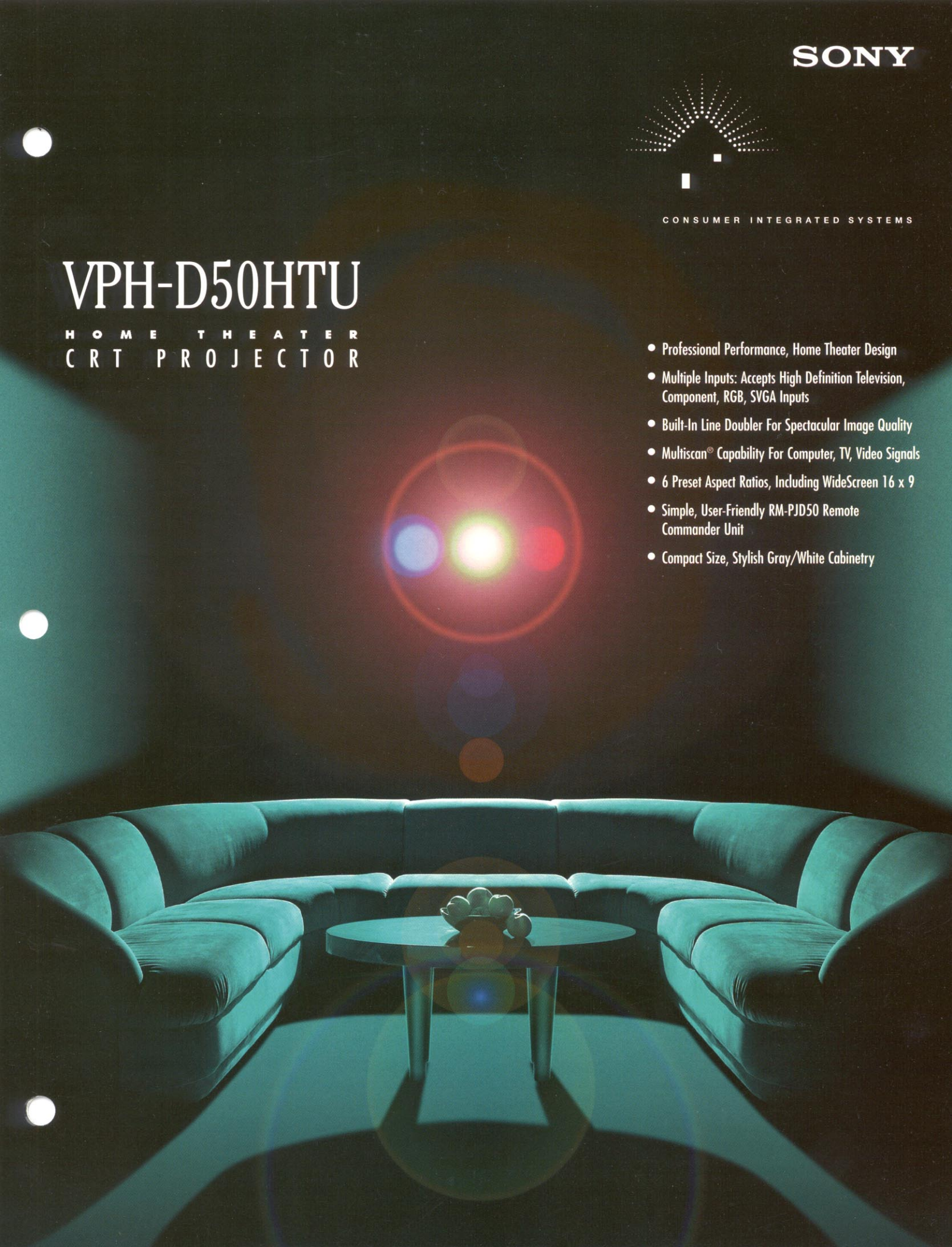
SONY

CONSUMER INTEGRATED SYSTEMS

VPH-D50HTU

HOME THEATER CRT PROJECTOR

- Professional Performance, Home Theater Design
- Multiple Inputs: Accepts High Definition Television, Component, RGB, SVGA Inputs
- Built-In Line Doubler For Spectacular Image Quality
- Multiscan® Capability For Computer, TV, Video Signals
- 6 Preset Aspect Ratios, Including WideScreen 16 x 9
- Simple, User-Friendly RM-PJD50 Remote Commander Unit
- Compact Size, Stylish Gray/White Cabinetry



VPH-D50HTU

HOME THEATER CRT PROJECTOR

Sony's new VPH-D50HTU is a thrilling new approach to home entertainment: an affordable, professional–quality CRT Projector designed specifically for home theater installations. It gives you a simplified Remote Commander® unit and a built-in line-doubler for giant-screen cinematic images with startling clarity and detail. You also get more input connectors, for simultaneous hookup of High Definition Television (HDTV) and RGB/component or composite video sources-plus 6 preset aspect ratios for current 4 x 3 images and future 16 x 9 widescreen programming!

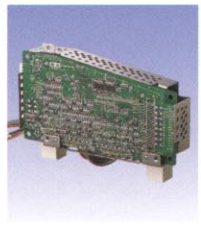
Features

Versatile inputs. In your own home theater, you'll want to see it all-so your Sony VPH-D50HTU CRT Projector has all the inputs you need for simultaneous hookup of multiple input sources, including HDTV, RGB/Component (Y/R-Y/B-Y), Y/C, and composite video.

More Versatile Inputs: the rear connector panel accepts simultaneous video inputs for HDTV and standard video connections.

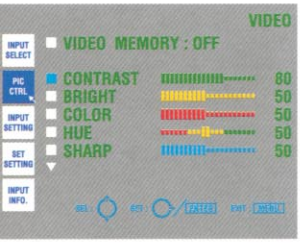
Advanced CRT Design: Sony's 7" CRT tubes project brilliant color images with superb resolution.

Built in line doubler. To make your giant-screen images even sharper and more highly detailed, a Sony EXB-DS10 IDTV Board is mounted internally in your projector-and with Sony's advanced motion compensation system, you can see sharper pictures without visible scan lines.

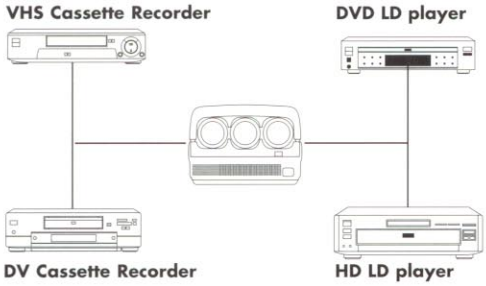


Built-In Line Doubler: your giant-screen image smoothes out visible scan lines and shows more fine detail.

Multiscan® capability. Whatever you feel like watching, your Sony Home Theater Projector is ready to deliver a spectacular performance: VCR and DVD movies, TV programs, computer text and graphic displays.



Simple On-Screen menus: setup is quick and simple, with on-screen menus.



HD-Ready. Multiscan capability also means that you'll be ready for any of the new High Definition TV formats or proposed DTV formats-opening your home theater to a dramatic new world of video possibilities.

A remote that's easy to use. When you're ready for entertainment, you don't want to fumble with keys-so our new RM-PJD50 Remote Commander unit puts simple operations in a compact, card-sized unit. There's also a full-key RM-JP1001 Remote Commander unit that gives you full-key setup and operation capabilities.

Preset Aspect Ratios: you can project both 4x3 standard and 16x9 widescreen images at the touch of a remote control button.

Preset aspect ratios. Standard 4 x 3, widescreen 16 x 9, even Vista and CinemaScope® images–with 6 preset aspect ratios, you can change screen formats at the touch of a remote control button. That gives you maximum flexibility for DVD and DTV playback in any format.

User-Friendly Remote: a convenient card-sized RM-PJD50 Remote Commander unit makes home theater control easier than ever.

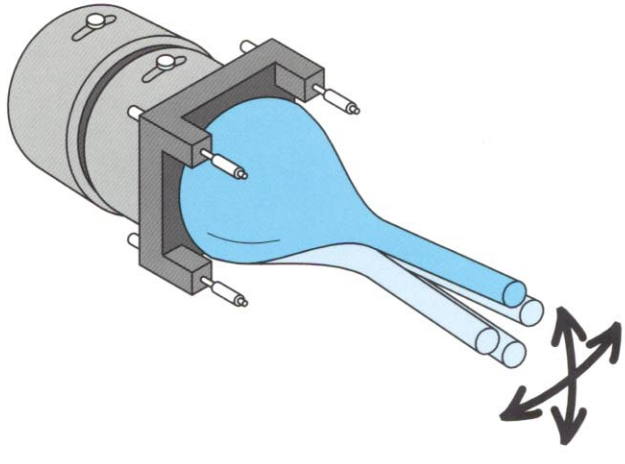
Video memory settings. For optimum registration and focus, you can store projector data in memory for each home video entertainment experience: VHS tape, DVD disk, TV programs, or computer input. Then you can use your Remote Commander unit to switch quickly to the ideal setting for the show you're watching.

Get the big picture. Unlike an ordinary television, your Sony Home Theater Projector casts an image from three precision-aligned CRTs (cathode-ray tubes) to create a powerful, high-resolution image on screens up to 250 inches in diagonal.

High brightness. Sony's high-performance 7" CRTs produce a high light output of 160 ANSI lumens for a brilliant giant-screen picture that gives you a truly theatrical experience.

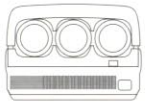
Sharp detail. For highly detailed images that make movies and TV programs come alive, your Sony Home Theater Projector provides resolution of 1280 x 1024 pixels (picture elements) and sharpens screen focus with advanced circuitry and electronics.

Simple setup and operation. While you watch the image on your screen, you can make simple adjustments for projecting vivid, high-contrast images on various screen sizes.

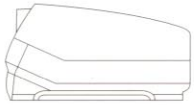


Simple Screen Size Adjustment: universal air coupling design lets you adjust horizontal and vertical CRT and lens angles for accurate projection on screen sizes up to 250" diagonal.

Specifications VPH-D50HTU



projector front view



projector side view

OPTICAL

Projection system:	3 picture tubes, 3 lenses, direct projection system
Picture tube:	7-inch (phosphor size 5.5-inch), static-focus CRT tubes
Projection lens:	double-focus lenses, F1.0/135mm
Screen coverage:	60-inch to 250-inch (viewable area measured diagonally), factory preset to 100-inch
Light output:	160 ANSI lumen* (fH: 64kHz, fV: 50Hz, 6500k); 130 ANSI lumen (fH: 15kHz, fV: 60Hz, 6500k); all-white: 200 ANSI lumen

GENERAL

Color system:	NTSC, PAL, SECAM, NTSC4.43 (automatically selected)
Resolution:	700 TV lines (video); 1000 TV lines (HDVS); 1280 x 1024 pixels (RGB, measured at fH: 64kHz, fV: 60Hz)
Scanning frequency:	15 to 64kHz (horizontal), 38 to 150Hz (vertical)
RGB bandwidth:	75MHz
Test signals:	cross-hair, hatch reverse, dot, H/H reverse, ME/ME reverse, all-white, window, window and line, color bar, pluge, stair-step, sub-pattern, cross
Power requirements:	AC 120V, 50/60Hz
Power consumption:	450W (max); 7W (standby)
Dimensions (whd):	27 3/8" x 14 1/8" x 37 1/4" (603 x 345 x 671mm)
Weight:	119 lb. 1 oz. (54kg)
Operating temperature:	32 to 104° F (0 to 40° C)

INPUTS/ OUTPUTS

Inputs:	
Video:	
Composite:	Loop-through BNC, 1Vp-p ± 2dB, sync negative,75Ω
Y In:	BNC,1Vp-p ± 2dB, sync negative, 75Ω
CIn:	BNC, Burst 0.286 ± 2dB (NTSC), 75Ω; 0.3Vp-p ± 2dB (PAL), 75Ω
Y/C IN:	Loop-through mini DIN 4-pin;
Y (luminance):	1Vp-p ± 2dB, sync negative,75Ω
C (chrominance):	Burst 0.286 ± 2dB (NTSC),75Ω; 0.3Vp-p ± 2dB (PAL), 75Ω
INPUT A/B:	
Analog RGB/ Component:	BNC
R/R-Y:	0.7Vp-p ±2dB positive, 75Ω
G:	0.7Vp-p ±2dB positive, 75Ω
G with sync:	1Vp-p ±2dB sync negative, 75Ω
B/B-Y/P/B:	0.7Vp-p ±2dB positive, 75Ω
Sync/HD:	
Composite sync:	0.6 to 8Vp-p, high impedance, positive/negative
Horizontal sync:	0.6 to 8Vp-p, high impedance, positive/negative
VD:	
Vertical sync:	0.6 to 8Vp-p, high impedance, positive/negative
HDTV**(Y/PBPR):	BNC
Y:	1Vp-p ±2dB, 75Ω;
PBPR:	Tri-level sync: ±0.3Vp-p; Bi-level sync:0.3Vp-p
HDTV**(GBR):	
G with sync:	1Vp-p ±2dB, 75Ω; Tri-level sync: ±0.3Vp-p; Bi-level sync: 0.3Vp-p
B/R:	0.7Vp-p ±2dB, 75Ω
VIDEO:	1Vp-p ±2dB, 75Ω
CONTROL S:	Stereo mini jack, 5Vp-p
Plug-in power:	DC5V
maximum output:	60mA
OUT:	Stereo mini jack, 5Vp-p
REMOTE:	RS-422A: D-sub 9-pin (female)
ABL LINK:	IN: mini jack OUT: mini jack
TRIG:	Mini jack
Power ON:	DC 12V, Output impedance 4.7kΩ
Power OFF:	0V

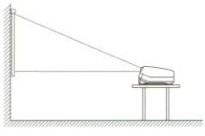
Supplied Accessories:

- EXB-DS10 Extension Board (internal line doubler)
- RM-PJ1001 Remote Commander Control Unit
- RM-PJD50 Remote Commander Control Unit
- Remote Control Cable (15m)
- Adjusting Plate
- AA Batteries (3)
- AC Power Cord
- Operation Manual
- Installation Manual

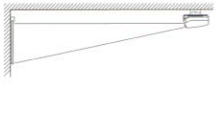
Optional Accessories:

- Interface Boards (IFB-12/20/21/30/1000)
- Signal Interface Cables (SIC-10/20A/20B/20C/21/22/30)
- PC-1271/1271M Signal Interface Switcher
- FU-1271/1271M Interface Unit
- PSS-70 Suspension Support
- PSS-10 Suspension Support
- RM-PJM800 Remote Commander Unit
- RM-PJ10 Infrared Remote Control Receiver
- RM-PJ20/21 Mouse Receiver
- ADP-10 Signal Adaptor (HD D-sub 12-pin to D-sub 9-pin for SIC cable)
- SDP-20 Signal Adaptor (Macintosh to VGA)
- SMF-400 Monitor Cable (HD D-sub 15-pin to 5 BNC)
- SMF-401 Monitor Cable (HD D-sub 15-pin to HD D-sub 15-pin)
- RCC-5G/10G/30G 9-Pin Remote Cables (D-sub 9-pin to D-sub 9-pin for RS-422A)
- VPS-80HF 80-Inch Flat Screen
- VPS-100FH 100-Inch Flat Screen
- VPS-120FH 120-Inch Flat Screen

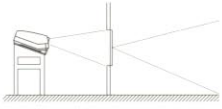
Installation



floor installation



ceiling installation



rear projection

*ANSI lumen is a measuring method of the American National Standard Institute. Since there is no uniform method of measuring brightness, specifications will vary among manufacturers.

**HDTV: 1125/60 interlaced HDTV studio standard system.

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